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TM/mfd
2-11-59

DOBRYANSKIY, A. F.

11(0) PHASE I BOOK EXPLOITATION SOV/1960

Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy institut

Geokhimicheskiy sbornik, no. 5 (Collected Papers on Geochemistry, Nr 5) Leningrad, Gostoptekhizdat, 1958. (Series: Its: Trudy, vyp. 123) 1,000 copies printed.

Ed.: Pavel Fedorovich Andreyev; Exec. Ed.: L. Ya. Rusakova; Tech. Ed.: I. M. Gennad'yeva.

PURPOSE: The book is intended for the technical and scientific personnel of institutes and TsNIL (Central Scientific Research Laboratories) of the petroleum industry, and all those interested in the geology and geochemistry of petroleum.

COVERAGE: The book is the fifth issue of the Geokhimicheskiy sbornik (Collected Papers on Geochemistry) and contains articles contributed by VNIGRI staff members (All-Union Scientific Research Institute for Geological Survey) on various aspects of geo-

Card 1/7

chemistry. The work is divided into two parts, the first of which consists of 12 articles dealing with the development of theoretical problems in petroleum chemistry. The second part reviews problems connected with the study of organic and mineral crudes. In Part I, A. F. Dobryanskiy posits the low temperature origin of petroleum and rejects the popular claim concerning high temperature origin. The joint work of A. F. Dobryanskiy, P. F. Andreyev, and A. I. Bogomolov directs attention to the uniform phenomena in the composition of crudes that result from spontaneous changes in their substances through geological periods and which occur in full conformance with the basic laws of nature. The article supplements the basic principles developed by A. F. Dobryanskiy ten years ago in his well-known work, "Geokhimiya nefti" (Geochemistry of Petroleum). P. A. Demenkova, L. N. Zakharenkova, and A. P. Kurbatskaya report on the correlation of some microcomponents in the composition of crudes. Their extensive research combined with existing information permits them to draw interesting basic conclusions bearing directly on the origin of crude. Part II contains articles on new chemical, physical, and geochemical studies conducted at VNIGRI in recent years. Among these A. I. Bogomolov and K. I. Panina report on the particular characteristics of the aromatic hydrocarbon structure, which may prove useful for future research and exploration and in solving many genetic problems. I. K. Voronova describes a new method of counting the total number of live bacteria. It may be applied in various microbiological studies. References accompany each article.

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Collected Papers (Cont.) SOV/1960

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Card 5/7

Collected Papers (Cont.) SOV/1960

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AVAILABLE: Library of Congress

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TM/dfh
7-27-59

DOBRYANSKIY, A.F.

The high-temperature theory of petroleum origin. Trudy VNIGRI
no.123:7-11 '58. (MIRA 11:12)
(Petroleum geology)

S/081/60/000/015/010/014
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 15, p. 199, # 61367

AUTHORS: Dobryanskiy, A.F., Rybkina, V.V.

TITLE: The Transformations of Some Bisubstituted Alkylbenzenes in the Presence of Alumosilicate Catalysts

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1959, No. 51, pp. 76-82

TEXT: In the presence of alumosilicate catalysts and at temperatures of ≤ 250°C, dialkyl aromatic hydrocarbons with one phenyl ring are capable of transformations during an extended period. This transformation consists in the transfer of alkyl with the formation of a trisubstituted from a bisubstituted one. As a result of the transformation, monosubstituted benzenes are liberated. The rate of the radical transfer depends on its magnitude. Isomerization of substitutes into meta-position takes place simultaneously with the reaction of radical disproportionation during the thermocatalytic transformations of bi-

Card 1/2

S/081/60/000/015/010/014
A006/A001

The Transformations of Some Bisubstituted Alkylbenzenes in the Presence of Alumosilicate Catalysts

substitute alkylbenzenes. The amount of transformed initial substances increases with a longer time and higher temperature of the experiments.

From the authors' summary

Translator's note: This is the full translation of the original Russian abstract.

✓

Card 2/2

DOBRYANSKIY, A.F., RYBKINA, V.V.

Comparing the effects of aluminum chloride and an aluminosilicate catalyst on halogenated benzenes. Trudy LTI no.51:83-85 '59. (MIRA 13:8)

(Benzene) (Catalysts)

DOBRYANSKIY, A.F., CHISTYAKOV, A.N.

Conversion of some polyatomic alcohols on aluminosilicate catalysts. Trudy LTI no.51:86-93 '59. (MIRA 13:8)
(Alcohols) (Aluminosilicates)

DOBRYANSKIY, A.F.; CHISTYAKOV, A.N.

Dehydration of isoöctyl alcohol, 2-ethyl-1-hexanol, on an aluminosilicate catalyst. Trudy LTI no.51:94-97 '59.
(MIRA 13:8)

(Hexyl alcohol) (Isoöctyl alcohol)

DOBRYANSKIY, A.F., CHISTYAKOV, A.N.

Thermal catalytic conversion of saturated monobasic acids of the aliphatic series on an aluminosilicate catalyst. Trudy LTI no.51:98-101 '59. (MIRA 13:8)
(Acids, Organic) (Gases-Analysis)

DOBRYANSKIY, A.F.

The problem of inorganic origin of petroleum. Trudy VNIGRI no.155:
5-11 '60. (MIRA 14:1)
(Petroleum geology)

DOBRYANSKIY, Aleksandr Flavianovich. Prinimal uchastiye ANDREYEV, P.F.; ERIKH, V.N., nauchnyy red.; CHIZHOV, A.A., ved. red.; SAFRONOVA, I.M., tekhn. red.

[Petroleum chemistry] Khimiia nefti. Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 223 p. (MIRA 15:1)

(Petroleum--Analysis)

BELYANIN, Boris Vladimirovich; ERIKH, Vladimir Nikolayevich;
DOBRYANSKIY, A.F., prof., retsenzent; VENEDIKTOVA, Ye.K.,
prepodavatel', retsenzent; FROLOVA, V.K., retsenzent;
BRUSKIN, D.M., ved. red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Industrial analysis of petroleum products and gas] Tekhnicheskii analiz nefteproduktov i gaza. Leningrad, Gostoptekhizdat, 1962. 367 p. (MIRA 16:3)

1. Leningradskiy universitet (for Dobryanskiy). 2. Groznenskiy neftyanoy tekhnikum (for Venediktova). 3. Zaveduyushchiy laboratoriyey Moskovskogo neftepererabatyvayushchego zavoda (for Frolova).

(Petroleum products--Analysis)
(Gas, Natural--Analysis)

DOBRYANSKIY, A.F.; VISNEVSKAYA, M.M.

Pyrolysis of some hydrocarbons in the presence of copper. Zhur.prikl.
khim. 35 no.11:2472-2477 N '62. (MIRA 15:12)
(Hydrocarbons) (Pyrolysis) (Copper catalysts)

S/152/63/000/003/001/005
B117/B186

AUTHORS: Dobryanskiy, A. F., Visnevskaya, M. M.

TITLE: Pyrolysis of cyclohexane derivatives in the presence of copper

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, no. 3, 1963, 51-54

TEXT: The question was studied whether direct dehydrogenation or condensation was decisive for the formation of aromatic hydrocarbons during the pyrolysis of cyclohexane derivatives. Experiments were carried out at 650°C and with a volume velocity of 0.05 - 0.08 of the liquid volume per catalyst volume (copper chips) per hour. Standard fractions were distilled out of the resulting condensates up to 200-250°C. Distillation residues were not examined. In the fractions 122-150, 150-175, and 175 - 200°C, the amounts of aromatic hydrocarbons were estimated at 100% on the basis of their yields, refractive indices and molecular weights. The condensate yield was smaller than for cyclohexane, averaging 37% and being 36.81 for methyl cyclohexane, 38.31 for dimethyl cyclohexane, and 36.85% for ethyl cyclohexane. In all cases, the condensate was of similar

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Pyrolysis of cyclohexane derivatives ... S/152/63/000/003/001/005
B117/B186

composition; it contained mainly benzene but not the corresponding aromatic derivative of the hydrocarbon used. This leads to the following assumptions: (1) Under the conditions described, dehydrogenation is not the principal reaction leading to the formation of aromatic hydrocarbons; (2) dehydrogenation is accompanied by the cleavage of side chains, and these secondary processes are responsible for the prevailing benzene content in the condensate. The gas liberated in the pyrolysis consisted of 50% methane, 19.33% hydrogen, and up to 28.72% unsaturated parts. The latter contain up to 1-2% isobutylene, up to 10% propylene, and up to 19.5% ethylene. There are 5 tables.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

SUBMITTED: September 4, 1962

Card 2/2

S/080/63/036/002/018/019
D204/D307

AUTHORS: Dobryanskiy, A. F. and Bykov, E. N.

TITLE: Conversion of p-phenyltolylmethane on an aluminosilicate catalyst

PERIODICAL: Zhurnal prikladnoy khimii, v.36, no.2, 1963, 461-464

TEXT: Preliminary experiments showed that yields of conversion increased linearly with temperature, from 0 at 100°C to 56% at 200°C. The latter temperature was selected for further study, with 4 hours heating, using an industrial aluminosilicate catalyst and pure $C_6H_5.CH_2.C_6H_4CH_3$. The light products were distilled off and fractionated, and the heavier products were decanted, extracted from the catalyst with ether and distilled in vacuum. It was found that the main reactions consisted of radical rearrangement. Thus bond II in $C_6H_5 \overset{I}{—} CH_2 \overset{II}{—} C_6H_4CH_3$ split to give toluene and $(C_6H_5.CH_3)_2C_6H_3.CH_3$ (67.7% of the original), whilst bond I was

Card 1/2

Conversion of p-phenyltolylmethane ... S/080/63/036/002/018/019
D204/D307

broken to give benzene and $CH_3.C_6H_4.CH_2(C_6H_5.CH_2).C_6H_3.CH_3$ (27.2% of the original). The remaining 5.1% of the starting material was consumed in side reactions. There are 2 figures and 3 tables.

SUBMITTED: April 25, 1962

Card 2/2

DOBRYANSKIY, A.F.; MAMEDOV, B.I.

Investigatigating gas formation in the low-temperature conversion of petroleum fractions with varying amounts of catalyst. Izv. vys. ucheb. neft' i gaz 7 no.5:69-72 '64. (MIRA 17:9)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.

L 56533-65

ACCESSION NR: AP5016790 UR/0286/65/000/010/0138/0138

66.097.3 : 691.4

4

AUTHOR: Dobryanskiy, A. F.; Kokurin, A. D.; Reshetov, Ye. I.

TITLE: A method for producing active clay. Class 12, No. 93513

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 138

TOPIC TAGS: active medium, clay, acid catalyst

ABSTRACT: This Author's Certificate introduces a method for producing active clay by acid treatment. The clay is first heated to 100-200°C at a pressure of 10-17 atmospheres in water with the addition of catalysts, e.g. mineral acid salts and then treated in acid.

ASSOCIATION: none

SUBMITTED: 16Dec50 ENCL: 00 SUB CODE: ES, GC

NO REF SOV: 000 OTHER: 000

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Card 1/1

DOBRYANSKIY, A.F. (Deceased); MARKINA, G.V.

"Thermocatalytic transformation of 2,2-dimethyl-1,1-diphenyl-1-propanol on an aluminosilicate catalyst. Zhur.org.khim. 1 no.3:483-485 Mr '65.

(MIRA 18:4)

1. Leningradskiy gosudarstvennyy universitet.

DOBRYANSKIY, A.I.

Scientific bases of a unified system of technical documentation. Standartizatsiia 29 no.7:11-13 Jl '65.

(MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po normalizatsii v mashinostroyenii.

DOBRYANSKIY, A.I.

Problems in the standardization of design documentation.
Standartizatsiia 29 no.8:7-9 '65. (MIRA 18:10)

DOBRYANSKIY, A.I., inzh.

Mechanization of the collection and conveying of metal chips in machinery plants. Vest.mashinostr. 43 no.4:77-81 Ap '63. (MIRA 16:4)
(Machine-shop practices)

DOBRYANSKIY, A.I., inzh.

Briquetting metal [illegible]. Vest.mashinostr. 43 no.9:82-85 S '63. (MIRA 16:10)

DOBRYANSKIY, A.I.

Adjustable shelves and equipment for the working area. Mashinostroitel' no.2:26-28 F '64.
(MIRA 17:3)

DOBRYANSKIY, A.I.

Unification is a method for creating high-production machines. Standartizatsiia 28 no.4:30-38 Ap '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut normalizatsii v mashinostroyenii.

DOBRYANSKIY, A.M. [Dobrians'kyi, A.M.]

Tectonics of the southwestern rim of the Donets Ridge adjacent to the Azov crystalline massif. Dop. AN URSR no.6:796-800 '61.
(MIRA 14:6)

1. Institut geologicheskikh nauk AN USSR. Predstavleno akademikom AN USSR V. G. Bondarchukom [Bondarchuk, V.H.]
(Donets Riges--Geology, Structural)

DOBRYANSKIY, A. M.[Dobrians'kyi, A. M.]

Basic characteristics of the tectonics of the western wing of the Kal'mius-Torets Valleys. Trudy Inst. geol. nauk. AN URSR. Ser. zah. geol. no.1:133-142 '62. (MIRA 16:1)

(Kazennyy Torets Valley—Geology, Structural)
(Kal'mius Valley—Geology, Structural)

DOBRYANSKIY, A.M.

Diapiric phenomena in the arch of the main anticline of the Donets Range. Dokl. AN SSSR 155 no.1:82-84 Mr '64. (MIRA 17:4)

1. Donetskiy politekhnicheskiy institut. Predstavleno akademikom V.I.Smirnovym.

DOBRYANSKIY, A.M. [Dobrians'kyi, A.M.]

Connection of structure and cinnabar mineralization in the Donets Basin. Dop. AN URSR no. 6:801-803 '64. (MIRA 17:9)

1. Donetskiy politekhnicheskiy institut. Predstavleno akademikom AN UkrSSR V.G.Bondarchukom [Bondarchuk, V.H.].

BAKIROV, A.A., doktor nauk, redaktor; VASSOYEVICH, N.B., doktor nauk;
VEBER, V.V., doktor nauk; DVALI, M.F., doktor nauk; DOBRYANSKIY,
A.V., doktor nauk; MAYMIN, Z.L., doktor nauk; MIRCHINK, M.V.,
redaktor; ANDREYEV, P.F., kandidat nauk; AYZENSHTADT, G.Ye.,
kandidat nauk; BOGOMOLOVA, A.I., kandidat nauk; GORSKAYA, A.I.,
kandidat nauk; ZHABREV, D.V., kandidat nauk, redaktor; KAZMINA,
T.A., kandidat nauk; MESSINEVA, M.A., kandidat nauk, PETROVA,
Yu.N., kandidat nauk; RADCHENKO, O.A., kandidat nauk; TATARSKIY,
V.T., kandidat nauk; TIKHIY, V.N., kandidat nauk; USPENSKIY, V.A.
kandidat nauk, DYAKOV, B.F., redaktor; SAVINA, Z.A., redaktor;
TROFIMOV, A.V., tekhnicheskiy redaktor.

[Origin of oil] Proiskhozhdenie nefti. Pod red. M.F.Mirchinka i
dr. Moskva, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi
lit-ry, 1955. 483 p. (MLRA 9:1)

1. Chlen korrespondent AN SSSR (for Mirchink)
(Petroleum geology)

DOBRYANSKIY, B.I., inzh.; RUNOV, Yu.A., inzh.

Concerning the geometry of the air gap of traction motors.
Vest. elektroprom. 32 no.7:31-33 Jl '61. (MIRA 14:10)
(Magnetic circuits)
(Electric motors)

SHABALIN, A.Ye., DOBRYANSKIY, Ye.M.

New rise of the paper industry of the Ukraine. Bum.prom. 35 no.8:3-5 Ag '60. (MIRA 13:8)

1. Gosplan USSR.

(Ukraine--Paper industry)

DOBRYANSKIY, Yu.Ye.

Geology and crystalline rocks in the upper Ubort' Valley. Nauk.
zap.Kyiv.un. 16 no.14:139-150 '57. (MIRA 13:4)
(Ubort' Valley--Rocks, Crystalline and metamorphic)

DOBRYANSKIY, Yu.Ye. [Dobrians'kyi, IU.IE.]

Quartz syenites in the southwestern part of the Korosten' pluton. Visnyk Kyiv.un.Ser.geol.ta geog. no.1:31-36 '58. (MIRA 12:10)

(Korosten' region (Ukraine)--Syenite)

RUMANIA/General and Special Zoology. Insects. P
Systematics and Faunistics.

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92069

Author : Dobryanu, E., Manolako, K.
Inst : AS Rumania.
Title : Studies of Aleyrodids or White Flies (Homoptera - Aleyrodinea) in the Rumanian People's Republic.

Orig Pub : Biol. zh. Akad. RPR. 1956, 1, No 2, 117-143

Abstract : Description and notes on the systematism and ecology of Aleurochiton aceris Geoffroy, 1764; Siphoninus phillyreae Haliday, 1835; Asterobemisia carpini Koch, 1857; Trialeurodes vaporariorum Westwood, 1856; Bulgarialeurodes rosae Corbett, 1936, and Aleyrodes lonicerae Walker,

Card : 1/2

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RUMANIA/General and Special Zoology. Insects. P
Systematics and Faunistics.

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92069

1852. Illustrations. Bibliography, 38 titles. -- M. N. Kovaleva

Card : 2/2

SMIRNOVA, N.M.; DOBRYCHENKO, A.G.

Earthquake in the Terek region. Priroda 53 no.6:116-117 '64. (MIRA 17:6)

1. Groznenskaya seysmicheskaya stantsiya AN SSSR.

COUNTRY : POLAND

H

CATEGORY : Chemical Technology. Chemical Products and Their Applications. Carbohydrates and Their Processing.

ABS. JOUR. : RZhKhim., No 17, 1959, No. 62447

AUTHOR : Szarejko, R.; Zagrodzki, S.; Dobrycki, J.

INSTITUTE : -

TITLE : Effects of Calcium Carbonate and of Saturated Residue on the Increase of Juice Color During

ORIG. PUB. : Roczn. technol. i chem. zywn., 1957, 2, 101-112

ABSTRACT : Presented are analysis techniques and results of investigations conducted in laboratory and in commercial installations pertaining to the effects of $CaCO_3$ particles and of the saturated residue on the increased coloration of the evaporated juice and on the fouling of evaporator heat transfer surfaces. It is proved that in the presence of $CaCO_3$ particles, the juice does not darken which is explained by the adsorption of coloring compounds present in the juice and formed during the

*the Evaporation and on Fouling of the Heating Surfaces in Evaporators.

Card: 1/2

H - 107

COUNTRY :
CATEGORY : H

ABS. JOUR. : RZhKhim., No 17, 1959, No. 62447

AUTHOR :
INSTITUTE :
TITLE :

ORIG. PUB. :

ABSTRACT Con'd : evaporation step by $CaCO_3$. Steam bubbles, formed near $CaCO_3$ particles, prevent local overheating of the juice and caramelization of sugar. $CaCO_3$ tends to bind certain decomposition products of sugar that cause darkening of the juice. Effects of the saturated residue is analogical, and sometimes more favorable, than that of chemically pure chalk. The evaporation of juices and of clarified liquors, containg $CaCO_3$ particles and residue, does not present difficulties.

-- D. Bronshteyn.

Card: 2/2

DOBRYCKI, Jerzy

Astronomical interpretation of prehistoric monuments in Poland. Kwart hist nauki i tech 8 no.1:23-27 '63.

CHUCHMAREV, S.K.; YESIN, O.A.; DOBRYDEN', A.A.

Effect of the electrode polarization on the properties of the electrolyte-gas boundary. Dokl. AN SSSR 144 no.5:1100-1102 Je '62.
(MIRA 15:6)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova. Predstavleno akademikom A.N.Frumkinym.
(Sulfur) (Combustion) (Polarization (Electricity))

DOBRIDEN', A. A.; YESIN, O. A.; CHUCHMAREV, S. K.

Kinetics of the burning out of sulfur in slags during the passage of a direct electric current. Izv. vys. ucheb. zav.; chern. met. 5 no.12:12-19 '62. (MIRA 16:1)

1. Ural'skiy politekhnicheskiy institut.

(Slag—Sulfur content) (Electrolysis)

DOBRYDEN', A.A.; YESIN, O.A.; CHUCHMAREV, S.K.

Effect of alternating current on the rate of the burning-out of sulfur from slag. Izv. vys. ucheb. zav.; chern. met. 6 no.3: 20-25 '63. (MIRA 16:5)

1. Ural'skiy politekhnicheskiy institut.
(Desulfuration) (Electric currents, Alternating)

CHERNOBROVKIN, V.P.; DOBRYDEN', A.A.; BELYAYEV, V.S.

Phosphorus and titanium in gray foundry iron. Trudy Inst. met. UFAN SSSR no.4:113-121 '58. (MIRA 12:10)
(Cast iron--Testing)

CHERNOBROVKIN, V.P.; ANAN'IN, A.A.; DOBRYDEN', A.A.; KAYBICHEV, A.V.

Comparative evaluation of foundry irons of the Ural plants. Lit. proizv. no. 5:8-10 My '61. (MIRA 14:5)
(Cast iron) (Ural Mountains—Metallurgical plants)

18.7110

67765

SOV/126-8-5-18/29

AUTHORS: Chernobrovkin, V.P., Belyayev, V.S., and Dobryden', A.A.

TITLE: Influence of Vacuum on the Changes in Critical Temperatures, Structure and Chemical Composition of Cast Iron

PERIODICAL: Fizika metallov i metallovedeniye, Vol 8, 1959, Nr 5, pp 747-751 (USSR)

ABSTRACT: The authors give a brief account of the small amount of work (Refs 6, 7, 8) on the vacuum treatment of cast iron and go on to describe their own experiments. These were carried out in a type TGV-1 vacuum furnace with molybdenum elements (Fig 1), in which a residual pressure of 10^{-4} mm Hg could be produced. Iron was cast into special sand moulds (Ref 10), the critical temperatures being determined during the cooling. A 35-36 mm long section was cut from the ingots and machined into a crucible-shaped piece with an axial thermocouple hole 3.5-4 mm in diameter. The piece in its crucible was placed in a larger crucible on a refractory support in the furnace, the whole being covered with a bell-jar connected to the pumping system. After slow melting and holding for 30 minutes at about 1250 °C the iron was

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Influence of Vacuum on the Changes in Critical Temperatures, Structure and Chemical Composition of Cast Iron

cooled, the critical points being determined. Below the eutectic-transformation temperature the specimen was held for 20 minutes and then finally cooled. The type of fracture was determined, polished sections were prepared and chemical analysis carried out. It was found (table) that the manganese content of the vacuum treated iron was 0.04-0.14% compared with 0.54-0.64 in the starting material, the corresponding figures for sulphur content being 0.007-0.008 and 0.042-0.069%, and for graphite 3.50-3.67 and 2.73-3.04. Silicon and phosphorus were unchanged at 1.7 and 0.14%, respectively. The vacuum treatment gave a reduction in the eutectic and an increase in the eutectoid transformation temperatures. The vacuum treatment did not affect the lamellar form of the graphite (Figs 2, 3) but the background changed from pearlitic to ferritic. A white iron (4.1% C, 0.18% Si, 0.2% Mn, 0.3% P) was also vacuum treated, after which it gave a grey fracture (Fig 4).

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Influence of Vacuum on the Changes in Critical Temperature, Structure and Chemical Composition of Cast Iron

There are 4 figures, 1 table and 10 references, of which 9 are Soviet and 1 is German.

ASSOCIATION: Institut metallurgii UFAN SSSR (Institute of Metallurgy, Ural Branch of Acad.Sci. USSR)

SUBMITTED: November 21, 1958

Card 3/3

CHERNOBROVKIN, V.P.; ANAN'IN, A.A.; KAYBICHEV, A.V.; DOBRYDEN', A.A.

Gases in foundry iron. Izv.vys.ucheb.zav.; chern.met. 5 no.4:
136-139 '62. (MIRA 15:5)

1. Ural'skiy filial AN SSSR.
(Gases in metals)

CHUCHMAREV, S.K.; YESIN, O.A.; DOBRYDEN', A.A.

Oxidation kinetics of slag sulfur by gaseous oxygen. Izv. vys. ucheb. zav.; chern. met. 5 no.7:12-18 '62. (MIRA 15:8)

1. Ural'skiy politekhnicheskiy institut.
(Sulfur) (Oxidation)

CHUCHMAREV, S.K.; DOBRYNIN, A.A.

Using electrical current to intensify the burning out of sulfur in slags. Sbor. nauch. trud. Ural. politekh. inst. no.126:34-48 '63 (MIRA 17:8)

DOBRYDEN', A.A.; YESIN, O.A.; CHUCHMAREV, S.K.

Kinetics of the desulfuration of pig iron and slag by direct and alternating currents. Izv. vys. ucheb. zav.; chern. met. 7 no.2:5-12 '64. (MIRA 17:3)

1. Ural'skiy politekhnicheskiy institut.

DOBRYDEN', A. A.; YESIN, O. A.; CHUCHMAREV, S. K.

Intensifying the desulfuration of cast iron by the electrolysis of slag. Izv. vys. ucheb. zav.; chern. met. 7 no.6:11-16 '64. (MIRA 17:7)

1. Ural'skiy politekhnicheskiy institut.

CHUCHMAREV, S.K.; YESIN, O.A.; KAMYSHOV, V.M.; DOBRYDEN', A.A.

Kinetics of nitrogen dissolution in fused iron-free slags.
Izv. vys. ucheb. zav.; chern. met. 7 no.9:11-15 '64.
(MIRA 17:6)

1. Ural'skiy politekhnicheskiy institut.

DOBRYDEN', A.A.; YESIN, O.A.; CHUCHMAREV, S.K.

Electrochemical desulfuration of varying basicity slags.
Izv. vys. ucheb. zav.; chern. met. 7 no.11:21-23 '64.
(MIRA 17:12)

1. Ural'skiy politekhnicheskiy institut.

KAMYSHOV, V.M.; YESIN, O.A.; CHUCHMAREV, S.K.; DOBRYDEN', A.A.

Effect of the electric current on the rate of nitrogen dissolution in molten oxides. Elektrokhimiia 1 no.2:227-230 F '65. (MIRA 18:6)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.

ACCESSION NR: AR4014151 S/0137/63/000/012/I034/I034

SOURCE: RZh. Metallurgiya, Abs. 12I211

AUTHOR: Psarev, V. I.; Galichuk, Ya. D.; Dobry*den', K. A.

TITLE: On the intergrowth of crystals of the compounds CdSb and Zn_3Sb_2 in alloys

CITED SOURCE: Nauchn. yezhegodnik za 1959 g. Chernovitsk. un-t. Fiz.-matem. fak. Chernovtsy*, 1960, 617-619

TOPIC TAGS: Cadmium antimonide crystal, Zinc antimonide crystal, crystal aggregation, crystal intergrowth, centrifugal crystallization

TRANSLATION: An investigation was made into the feasibility of consolidating crystals of CdSb and Zn_3Sb_2 in binary alloys of Cd with 25% Sb and Zn with 35% Sb by the mechanical effect of centrifugal forces on a crystallizing casting. The alloys were prepared from c.p. Zn, Sb of grade Su-0, and Cd of grade Kd-0, further purified by triple vacuum distillation. The crystallization was carried

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ACCESSION NR: AR4014151

out in evacuated pyrex ampoules, which were cooled together with the furnace after the metal had melted, at rest and with rotation. During the rotation, and in the course of the solidification, the CdSb and Zn_3Sb_2 crystals, which differ considerably in density from the adjoining liquid, grow together into large aggregates. This is illustrated by a comparison of the microstructures of the specimens cooled with and without rotation. V. Zolotorevskiy.

DATE ACQ: 09Jan64 SUB CODE: ML, PH, CH ENCL: 00

Card 2/2

PSAREV, V.I.; DOBRYDEN', K.A.; KAZYUK, F.I.

Investigating the coagulation process of finely divided phases in Zn-Sb alloys. Fiz. met. i metalloved. 14 no.1:130-133 Jl '62. (MIRA 15:7)

1. Chernovitskiy gosudarstvennyy universitet.
(Zinc-antimony alloys--Metallography)

L 15750-65 EWT(m)/EWP(t)/EWP(b) IJP(c)/ESD(t)/ESD(gs)/AFWL/ASD(a)-5/ASD(f)-2/
ACCESSION NR: AP4042507 S/0126/64/01[illegible]

AUTHOR: Psarev, V. I.; Dobry*den', K. A.

TITLE: Phase transformations in Cd - Sb alloys

18 17 27

SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 1, 1964, 47-54

TOPIC TAGS: phase transformations, Cd, Sb, crystallization, eutectic, stability, spheroidization, coalescence, equilibrium, metastability, isothermal holding, lattice distortion

ABSTRACT: Data available on the formation and transformation of metastable Cd_3Sb_2 compounds into the stable state are highly controversial. The authors investigated the conditions under which Cd-Sb alloys form, their structural state and the character of transformation. The formation of metastable phases is explained by the fact that insofar as supersaturation of CdSb crystals with [illegible] depends on their dispersity, the crystallization of the stable eutectic (CdSb plus Cd) or the dispersity of primary CdSb crystals under conditions of non-equilibrium leads to the dislocation of the composition towards a higher Sb contents. The Cd_3Sb_2 compound crystallizes from Cd - Sb melts in equilibrium. Specimens were

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L 15750-65
ACCESSION NR: AP4042807

submitted to metallographic examinations combined with thermographic and x-ray methods. The crystallographic structure of the particles was studied by electrolytic separation. After an 11-hour isothermal holding period at 290 C, the crystal lattice of impure CdSb was almost identical to that of the pure compound. In rapidly cooled specimens, the degree of lattice distortion was affected by the dispersity of particles. Subsequent heating led to the stabilization of the non-equilibrium lattice of CdSb particles. However, a complete restoration of the lattice equilibrium is achieved in the process of coalescence and spheroidization of the non-equilibrium particles. Rapid cooling from 40[illegible] to 410 [illegible] produces a three-phase structure: CdSb crystals having the highest microhardness [illegible], Cd_3Sb_2 crystals and the metastable eutectic. The result of tests designed to separate crystallization of the stable and the metastable eutectic confirm the assumption that the Cd_3Sb_2 phase forms in the melt of a compound that is changed and in a state of equilibrium. Orig. art. has: 6 figures.

ASSOCIATION: Chernovitskiy gosuniversitet (Chernovitsy State University)

SUBMITTED: 28Apr63 ENCL: 00

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L 15750-65
ACCESSION NR: AP4042807

SUB CODE: MM NO REF SOV: 005 OTHER: 001

Card 3/3

PSAREV, V.I. [Psar'ov, V.I.]; KOSTUR, N.L. [Kostur, M.L.]; DOBRYDEN', K.A.;
KOSTUR, T.A. [Kostur, T.O.]

The semiconducting compound Cd_4Sb_3. Ukr. fiz. zhur. 9 no.10:
1141-1143 O '64 (MIRA 18:1)

1. Chernovitskiy gosudarstvennyy universitet.

L 15946-66 EWT(m)/T/EWP(t)/EWP(b) IJP(c) JD

ACC NR: AT6002257 (N) SOURCE CODE UR/2564/65/006/000/0247/0254 33

AUTHOR: Psarev, V.I.; Dobryden', K.A. 32

ORG: none B+1

TITLE: Principles of crystallization and stabilization of the structure of compounds CdSb and Cd_3Sb_2 in alloys of the Cd-Sb system. [Paper presented at the Third Conference on Crystal Growing held in Moscow from 18 to 25 November, 1963]

SOURCE: AN SSSR. Institut kristallografii. Rost kristallov, v. 6, 1965, 247-254

TOPIC TAGS: cadmium compound, antimony compound, cadmium alloy, antimony alloy, crystallization

ABSTRACT: The study was devoted to the determination of the conditions under which the compounds CdSb, Cd_3Sb_2, and Cd_4Sb_3 are formed during crystallization of Cd-Sb alloys. The structural state and composition of the samples was studied by thermographic, electrolytic, metallographic, and x-ray analyses. It was found that during crystallization of melts containing from 41.93 to 52.00%, CdSb crystals supersaturated with cadmium precipitate first, as a result of which the melt becomes rich in antimony, and suitable supercooling creates conditions for the nucleation of Cd_3Sb_2 crystals. When the melt is

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ACC NR: AT6002257

rapidly cooled, Cd_3Sb_2 crystals after nucleation have a higher growth rate than CdSb, and the structure of the solidified alloy consists primarily of particles of the metastable phase Cd_3Sb_2. The compound Cd_4Sb_3 is apparently a subtractive solid solution based on Cd_3Sb. Orig. art. has: 6 figures, 1 table, and 1 formula.

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 008 / OTH REF: 001

FW

Card 2/2

DOBRYDEN', S.Ye.; SHEKHTMAN, V.B., agronom-inspektor

On the watch for state interests. Zashch. rast. ot vred. i bol.
2 no.6:52-53 N-D '57. (MIRA 16:1)

1. Nachal'nik Gosudarstvennoy inspektsii po karantinu rasteniy po Odesskoy oblasti (for Dobryden').
(Odessa--Plant quarantine)

DOBRYKH, L.I.; SHEMELININ, A.A.

Torsional suspension of the 10-ton trailer. Avt. prom. no.5:21 My '60. (MIRA 14:3)

1. Minskiy avtozavod.
(Truck trailers)

DOBRYKH, I.I.; SKINDER, I.B., kand. tekhn. nauk

Investigating resistance forces in the cylinder of an air-hydraulic suspension. Avt. prom. 31 no.6:26-30 Je '65.
(MIRA 18:10)

1. Belorusskiy avtozavod i Tsentral'nyy nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni avtomobil'nyy i avtomotornyy institut.

VYSOTSKIY, Mikhail Stepanovich; DOBRYKH, Leonid Ivanovich; SIROTKIN, Zalya L'vovich; TROFIMOV, V.I., inzh., retsenzent; FAL'KO, O.S., inzh., red.; EL'KIND, V.D., tekhn. red.

[Automobile and tractor trailers] Avtomobil'nye i traktornye pritsepy. Moskva, Mashgiz, 1962. 161 p. (MIRA 15:5)
(Truck trailers)

DOBRYKH, L.I.

Suspension of dump trucks made at the White-Russian Automobile Plant. Avt. prom. 30 no.9:18-21 S '64. (MIRA 17:10)

1. Belorusskiy zvtozavod.

KURILENKO, I.S.; DOBRYKH, V.A.

[redacted]

Treatment of suppurative meningitis with subarachnoid penicillin. Sovet. med. 17 no.4:18-20 Apr 1953. (CIML 24:4)

1. Candidate Medical Sciences for Kurilenko. 2. Sverdlovsk.

[illegible], I. M.; Inzh.

Industrial Buildings

Construction of bunkers erected by industrial methods. Biul. stroi. tekh. 9, No. 4, 1952. Leningradskiy Promstroyproyekt

SO: Monthly List of Russian Accessions, Library of Congress, August 1952 1953, Uncl.

DOBRYKIN, I.M.

North Caucasian complex of industrial enterprises. Prom. stroi. 39 no.7:36-39 '61. (MIRA 14:7)
(Caucasus, Northern—Precast concrete)

DOBRYKIN, I.M.; LEVIT, Ye.Ya.

Designing plants for the sand and gravel industry. Prom. stroi. 40 no.7:20-22 Jl '63. (MIRA 16:10)

1. Odesskiy Vsesoyuznyy institut po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva.

DOBRYKIN, I.; SIMANOVSKAYA, B.

Strengthening steel trusses. Prom. stroi. i inzh. soor. 4 no.1:27-28
Ja-F '63. (MIRA 16:3)
(Trusses) (Steel, Structural)

FOGEL', N.D.; DOBRYKINA, M.A.

Simple device for pneumoencephalography. Vrach.delo no.5:521 My '60.
(MIRA 13:11)

1. Khersonskaya oblastnaya bol'nitsa.
(ENCEPHALOGRAPHY)

FOGEL', N.D.; ~~DOBRYKINA, M.A.~~

Table for lumbar puncture. Vrach. delo no.8:118-119 Ag '60.
(MIRA 13:9)

1. Khersonskaya oblastnaya bol'nitsa.
(SPINE--PUNCTURE) (MEDICAL INSTRUMENTS AND APPARATUS)

FOGEL', N.D.; DOBRYKINA, M.A.

Result of kymographic registration of cerebrospinal dynamics tests.
Zhur. nerv. i psikh. 60 no. 2:172-174 '60. (MIRA 14:4)

1. Khersonskaya oblastnaya bol'nitsa (glavnyy vrach A.F. Maksin).
(CEREBROSPINAL FLUID)

STABNIKOV, M.V.; TURUKHANO, B.G.; DOBYRN, V.V.; MISHCHENKO, I.S.;
LUKASHUNAS, N.I.

Semiautomatic unit for measuring photographs of charged particle tracks. Prib. i tekh.eksp. 10 no.5:63-66 S-O '65. (MIRA 19:1)

1. Fiziko-tekhnicheskiy institut AN SSSR, Leningrad. Submitted Aug.6, 1964.

DOBRYNCHENKO, I.V. (Khorol, Poltavskoy obl., ul. Komsomol'skaya, d.28)

Phlegmon of the anterior abdominal wall as a result of empyema of the gall bladder. Klin.khir. no.9:75 S '62. (MIRA 16:5)

1. Khirurgicheskoye otdeleniye Khorol'skoy rayonnoy bol'nitsy, Poltavskoy oblasti.

(ABDOMEN—DISEASES) (GALL BLADDER—DISEASES)
(EMPYEMA)

Dobrynchenko, L.N.

BEKLEMISHEV, N.D.; DOBRYNCHENKO, L.N.

Treating chronic brucellosis. Trudy Inst.kraev.pat. AN Kazakh.SSR 3:133-144 '56. (MLRA 10:2)
(BRUCELLOSIS)

Dobrynchenko, L. N.

KAYRAKBAYEV, M.K.; DOBRYNCHENKO, L.N.

Results of treating diseases of the musculoskeletal system at the Saryagach mineral springs. Trudy Inst. Kraev. pat. AN Kazakh SSR 5:148-152 '57. (MIRA 11:2)
(MUSCULOSKELETAL SYSTEM--DISEASES)
(SARYAGACH--MINERAL WATERS)

BERENSHTEYN, S.A.; VAYSLEYB, V.P.; VARENIK, I.F.; DOBRYNCHENKO, M.V.; YEGOROV, B.P.; KLISENKO, Yu.F.; MOGILEVSKIY, I.I.[deceased]; PEREYASLAVTSEV, N.A.; PILIPENKO, V.I.; SAPOZHNIKOV, F.V., inzh.; SHEPELEV, V.M.; SHMULEVICH, M.L.; YARMOLINSKIY, I.M.; SHAGALOV, Ye.S., red.; KORIKOVSKIY, I.K., red.; LARIONOV, G.Ye., tekhn. red.

[Construction of the V.I.Lenin State Regional Electric Power Plant in Simferopol] Opyt stroitel'stva Simferopol'skoi GRES im. V.I.Lenina [By] S.A.Berenshtein i dr. Moskva, Gosenergoizdat, 1962. 151 p. (MIRA 15:6)

(Simferopol--Electric power plants)

TYUTYUNNIKOV, Ya.; DOBRYNIN, A.

More attention to young specialists. Prom.koop.no.10:6-10 O '55.
(MIRA 9:4)

1.Zamestitel' nachal'nika Upravleniya kadrov TSentropromsoveta (for Tyutyunnikov).2.Nachal'nik otdela rukovodyashchikh kadrov TSentropromsoveta (for Dobrynin).
(Ukraine--Technical education)

DOBRYNIN, A. (Moskva)

New administrative plan eliminates division of industry into shops. Prom. koop. 12 no.8:34-35 Ag '58. (MIRA 11:9)

1.Zamestitel' predsedatelya pravleniya Rosmetalloprokatsoyuza.
(Industrial management) (Chemical industries)

DOBRYNIN, A.A.

DOBRYNIN, A. A., A. E. ZAIKIN, and T. M. MEL'KUMOV.

Aviatsionnye motory; posobie dlia tekhnicheskogo sostava VVS RKKA. Moskva, Gosvoenizdat, 1937+367 p., diagrs.
Bibliography: v. 1, p. 363.
Title tr.: Aircraft engines; a handbook for technical personnel of the Red Army Air Force.

TL701.Z3

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

RYBAL'CHIK, Valentin Stepanovich; POLYAKOV, Sergey Vasil'yevich; GERASIMENKO, Vasiliy Fedorovich; DOBRYNIN, A.A., dotsent, kandidat tekhnicheskikh nauk, inzhener-polkovnik, redaktor; DRUZHININSKIY, M.V., inzhener, mayor, redaktor. SOKOLOVA, G.F., tekhnicheskiy redaktor.

[A theory of piston airplane motors] Teoriia porshnevykh aviatsionnykh dvigatelei. Pod red. A.A.Dobrynina. Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1955. 351 p. (MLRA 9:5)
(Airplanes--Motors)

DOBRYNIN, A.A.

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Ch

21

Methods for determining octane numbers over 100. E. I. Zabryanskii, A. A. Dobrynin and N. S. Pronin. *Neftyanaya Prom.* 22, No. 6, 95-9(1941); *Chem. Zentr.* 1943, II, 979-80.—For detn. of octane nos. over the range of 100-120, a method is used which is based on the permissible compression index. This is the ratio between the compression ratio for the fuel in question and that for pure isoöctane. The compression ratio is detd. for isooctane-heptane mixts. with octane nos. from 83 to 100; the consts. in the Brooks and Cleaton formula are detd. from these data, and the equation is used for the extrapolation of the octane nos. above 100. This method differs little from the army method; tests are carried out in a CFR test engine under the following standard conditions: r. p. m. 1200; air temp. 100°; cylinder jacket 105°; preignition varying with compression (for compressions of 5, 6, 8 and 10, ignition is advanced 35°, 31°, 26° and 21°, resp.); the carburetor is adjusted to give max. knock, knock intensity is measured with a thermoelement in the cylinder head. Since the fuels are compared according to cylinder-head temps., some fuels especially sensitive to elevated temps. give somewhat low results by this method. R. W. Ryan

COMMON ELEMENTS

MATERIALS INDEX

COMMON VARIABLES

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1. DOBRYNIN, A. N.

2. USSR (600)

4. Fire Extinction

7. Chemical foam fire extinguisher for enterprises of light industry. Tekst. prom. 12, no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

CHERKASOV, Boris Aleksandrovich; LYUL'KA, A.M., retsenzent;
DOBRYNIN, A.N., kand. tekhn. nauk red.

[Automatic control and regulation of ramjet engines]
Avtomatika i regulirovanie vozdushno-reaktivnykh dvigatelei. Moskva, Mashinostroenie, 1965. 402 p.
(MIRA 19:1)

1. Chlen-korrespondent AN SSSR (for Lyul'ka).

L 21402-66 EWT(d)/EWP(f)/EPF(n)-2/EWP(v)/T-2/EWP(k)/EWP(h)/EWP(1)/ETC(m)-6 WW

ACC NR: AP6009924 SOURCE CODE: UR/0413/66/000/004/0118/0119

INVENTOR: Korotkov, F. A.; Mushenko, G. I.; Dobrynin, A. N.; Sokolov, Ye. A.; Lebedev, K. V.

49
B

ORG: none

TITLE: Fuel feed control device for gas turbine engines. Class 46, No. 179127

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 118-119

TOPIC TAGS: gas turbine installation, engine turbine system, turbine fuel system, fuel pump

ABSTRACT: The proposed fuel feed regulator contains a fuel pump which feeds the fuel to a metering needle valve with a servo-plunger whose cavities are connected by a duct. The device also includes an engine speed limiter and speed governor, an automatic starter, and a minimum pressure valve which are located parallel to the constant pressure-gradient valve which maintains a constant fuel pressure drop across the needle valve (see Fig. 1). To increase the accuracy of control and reduce the weight and size, one of the plunger cavities is directly connected to the same line through a jet nozzle and a throttle unit. The duct between the cavities is also connected to the control element of the starter and through the minimum pressure valve to the sensing element of the speed limiter and speed governor.

UDC: 621.438-543.3-531.9

L 21402-66

ACC NR: AP6009924

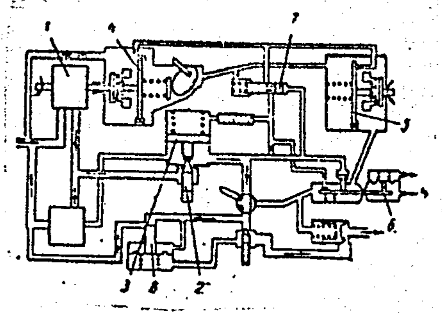

Fig. 1. Fuel feed regulator

1 - Fuel pump; 2 - needle valve; 3 - servo plunger; 4 - speed governor; 5 - speed limiter; 6 - automatic starter; 7 - minimum pressure valve; 8 - maximum flow rate regulator.

To increase the accuracy of control of the turbocompressor speeds and of the regulation of helicopter rotor rpm's in a variation of this device, the speed governor actuation is based on a derivative and the speed limiter is similar in design with a residual nonuniformity. In order to eliminate the effect of leakage on the maximum fuel flow rate, the regulator is made in the form of a jet nozzle and a constant pressure gradient valve. Orig. art. has: 1 figure. [TN]

SUB CODE: 21/ SUBM DATE: 05Sep63/ ATD PRESS: 4221

Card 2/2 OLR

VOBLIKOV, S.G.; DOBRYNIN, A.S.

Training scientific specialists in the R.S.F.S.R. Biul.tekh.-ekon. inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 18 no.5:55-57 My '65. (MIRA 18:6)